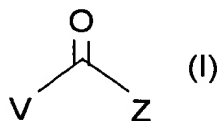


We claim:

1. A herbicidal composition comprising

5 A) one or more compounds of the formula (I)



10 where V is an unsubstituted or substituted heterocyclyl radical or a radical
-CR^α = CR^β R^{β1}, where R^α and R^β are identical or different carbon-containing
C₁-C₄₀ radicals which together can form an unsubstituted or substituted ring,
and R^{β1} is OH or a carbon-containing C₁-C₄₀ radical, and Z is an
unsubstituted or substituted aryl radical, and

15 B) one or more surfactants comprising, as structural element, at least 10,
alkylene oxide units.

2. A herbicidal composition as claimed in claim 1 comprising, as component B), one
or more surfactants of the general formula (II)

20
$$\text{R}^{\gamma}-(\text{EO})_x (\text{PO})_y (\text{EO})_z-\text{R}^{\delta} \quad (\text{II})$$

where

EO denotes an ethylene oxide unit,

PO denotes a propylene oxide unit,

x denotes an integer from 1 to 50,

25 y denotes an integer from 0 to 50,

z denotes an integer from 0 to 50,

where the total (x+y+z) ≥ 10 and ≤ 150, and

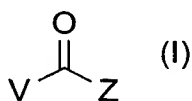
R^γ denotes OH, an unsubstituted or substituted C₁-C₄₀-hydrocarboxy radical,
an O-acyl radical or NR^IR^{II} or [NR^IR^{II}R^{III}][⊕]X[⊖], where R^I, R^{II} and R^{III} are

30 identical or different and denote H or an unsubstituted or substituted C₁-C₃₀-

hydrocarbon radical which can optionally be bound via a group $(EO)_w$, where w is an integer from 1 to 50, X^\ominus is an anion, and

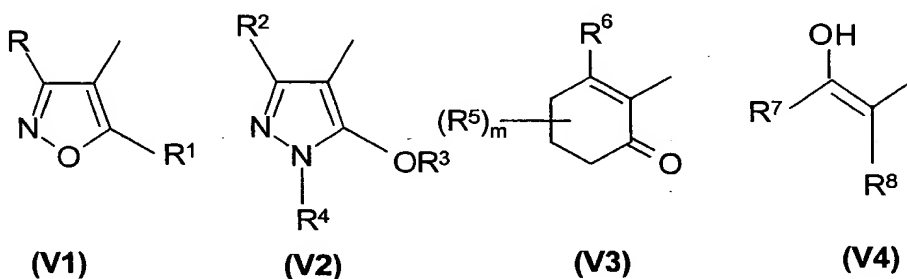
R^δ denotes H, an unsubstituted or substituted C_1 - C_{40} -hydrocarbon radical, an acyl radical or $NR^I R^{II}$ or $[NR^I R^{II} R^{III}]^\oplus X^\ominus$, where R^I , R^{II} and R^{III} are identical or different and denote H or an unsubstituted or substituted C_1 - C_{30} -hydrocarbon radical which can optionally be bound via a group $(EO)_w$, where w is an integer from 1 to 50, X^\ominus is an anion.

3. A herbicidal composition as claimed in claim 1, comprising, as component A),
10 a compound of the formula (I)



in which

V is a radical selected from the group (V1) to (V4),



15

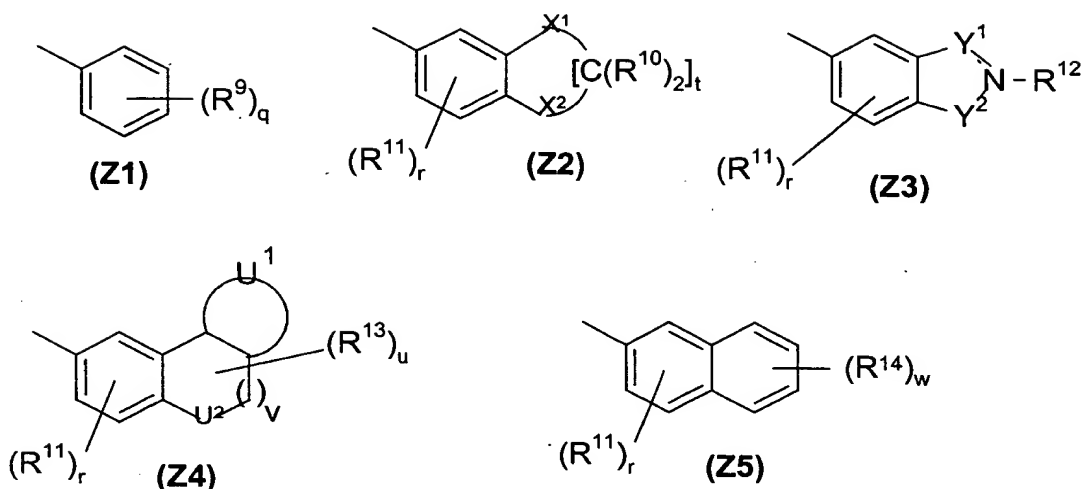
where the symbols and indices have the following meanings:

R is hydrogen, (C_1-C_{10}) alkoxycarbonyl, (C_1-C_{10}) haloalkoxycarbonyl, (C_1-C_{10}) alkylsulfonyl, (C_1-C_{10}) alkylsulfinyl, (C_1-C_{10}) alkylthio, COOH or cyano;

20 R^1 is hydrogen or a (C_1-C_{10}) carbon-containing radical such as (C_1-C_{10}) alkyl, (C_2-C_{10}) alkenyl, (C_2-C_{10}) alkynyl, (C_3-C_{10}) cycloalkyl, (C_3-C_{10}) cycloalkenyl, (C_1-C_{10}) alkyl- (C_3-C_{10}) cycloalkyl, (C_3-C_{10}) halocycloalkyl, (C_1-C_{10}) alkylthio-cycloalkyl, (C_1-C_{10}) haloalkyl or (C_2-C_{10}) haloalkenyl;

- R^2 is hydrogen, (C_1-C_{10}) alkyl, (C_1-C_{10}) alkoxy, (C_1-C_{10}) haloalkyl, halogen, (C_1-C_{10}) haloalkoxy, cyano or nitro;
- R^3 is hydrogen or a (C_1-C_{10}) carbon-containing radical such as (C_1-C_{10}) alkyl, (C_2-C_{10}) alkenyl, (C_2-C_{10}) alkynyl, (C_1-C_{10}) haloalkyl, (C_1-C_{10}) alkoxy- (C_1-C_{10}) alkyl, (C_1-C_{10}) alkylcarbonyl, (C_1-C_{10}) alkylsulfonyl, (C_1-C_{10}) haloalkylsulfonyl, unsubstituted or substituted arylsulfonyl, unsubstituted or substituted arylcarbonyl- (C_1-C_{10}) alkyl or unsubstituted or substituted aryl- (C_1-C_{10}) alkyl;
- R^4 is hydrogen or a (C_1-C_{10}) carbon-containing radical such as (C_1-C_{10}) alkyl, (C_2-C_{10}) alkenyl, (C_2-C_{10}) alkynyl, (C_1-C_{10}) haloalkyl, phenyl or benzyl;
- R^5 is a (C_1-C_{12}) carbon-containing radical such as (C_1-C_{10}) alkyl, (C_1-C_{10}) alkoxy, (C_1-C_{10}) alkoxy- (C_1-C_{10}) alkyl, (C_1-C_{10}) dialkoxy- (C_1-C_{10}) alkyl, (C_1-C_{10}) alkylthio, halogen, substituted or unsubstituted aryl, tetrahydropyran-4-yl, tetrahydropyran-3-yl, tetrahydrothiopyran-3-yl, 1-methylthio-cyclopropyl, 2-ethylthio-propyl, or two radicals R^5 together are (C_2-C_{10}) alkylene;
- R^6 is hydroxyl or a (C_1-C_{10}) carbon-containing radical such as (C_1-C_{10}) alkoxy, (C_1-C_{10}) haloalkoxy, formyloxy, (C_1-C_{10}) alkylcarbonyloxy, (C_1-C_{10}) alkylsulfonyloxy, (C_1-C_{10}) alkylthio, (C_1-C_{10}) haloalkylthio, unsubstituted or substituted arylthio, unsubstituted or substituted aryloxy, (C_1-C_{10}) alkylsulfinyl or (C_1-C_{10}) alkylsulfonyl;
- R^7 is a (C_1-C_7) carbon-containing radical such as (C_1-C_4) alkyl, (C_1-C_4) haloalkyl, (C_3-C_7) cycloalkyl, (C_1-C_4) alkyl- (C_3-C_7) cycloalkyl, (C_3-C_7) halocycloalkyl;
- R^8 is a (C_1-C_4) carbon-containing radical such as cyano, (C_1-C_4) alkoxycarbonyl, (C_1-C_4) alkylcarbonyl, (C_1-C_4) alkylsulfonyl, (C_1-C_4) alkylsulfinyl, (C_1-C_4) alkylthio, (C_1-C_4) alkylaminocarbonyl, (C_1-C_4) dialkylaminocarbonyl;
- m is an integer from 0 to 6, where, if $m \geq 2$, the radicals R^5 can be identical or different from one another;

and Z is an unsubstituted or substituted aryl radical, preferably selected from the group (Z1) to (Z5),



where the symbols and indices have the following meanings:

R^9 radicals are identical or different and are nitro, amino, halogen, OH, SF_5 or a (C₁-C₁₀) carbon-containing radical such as (C₁-C₁₀)alkyl, (C₂-C₁₀)alkenyl, (C₂-C₁₀)alkynyl, (C₁-C₁₀)haloalkyl, (C₂-C₁₀)haloalkenyl, (C₂-C₁₀)haloalkynyl, (C₁-C₁₀)haloalkoxy, (C₁-C₁₀)haloalkylthio, (C₁-C₁₀)alkoxycarbonyl, (C₁-C₁₀)alkylsulfonyl, (C₁-C₁₀)alkylsulfinyl, (C₁-C₁₀)alkylthio, arylsulfonyl, arylsulfinyl, arylthio, (C₁-C₁₀)alkoxy, (C₁-C₁₀)alkoxy-(C₁-C₁₀)alkoxy, (C₁-C₁₀)alkylthio-(C₁-C₁₀)-alkoxy, (C₁-C₁₀)alkylcarbonyl, (C₁-C₁₀)alkylaminosulfonyl, (C₁-C₁₀)dialkylaminosulfonyl, (C₁-C₁₀)alkylcarbamoyl, (C₁-C₁₀)dialkylcarbamoyl, (C₁-C₁₀)alkoxy-(C₁-C₁₀)alkyl, (C₁-C₁₀)haloalkoxy-(C₁-C₁₀)alkyl, (C₁-C₄)alkoxy-(C₁-C₄)-alkoxy-(C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, (C₃-C₆)-cycloalkyl-(C₁-C₄)-alkoxy, (C₃-C₆)cycloalkoxy-(C₁-C₄)-alkyl, phenoxy, cyano, alkylamino, dialkylamino, unsubstituted or substituted benzyl, unsubstituted or substituted heteroaryl, unsubstituted or substituted heterocyclyl, 2-tetrahydrofuranyl-(C₁-C₄)alkoxy-(C₁-C₄)-alkyl, unsubstituted or substituted heteroaryl-(C₁-C₁₀)alkyl or di-(C₁-C₁₀)alkylphosphono-(C₁-C₁₀)alkyl;

q is 0, 1, 2, 3, 4 or 5;

R^{10} radicals are identical or different and are hydrogen, (C₁-C₁₀)alkyl, halogen;

R^{11} radicals are identical or different and are (C₁-C₁₀)alkyl, (C₂-C₁₀)alkenyl, (C₂-C₁₀)alkynyl, halogen, (C₁-C₁₀)haloalkyl, (C₂-C₁₀)haloalkenyl, (C₂-C₁₀)haloalkynyl, (C₁-C₁₀)haloalkoxy, (C₁-C₁₀)haloalkylthio, (C₁-

- (C_{10}) alkoxycarbonyl, (C_1-C_{10}) alkylsulfonyl, (C_1-C_{10}) haloalkylsulfonyl, (C_1-C_{10}) alkylsulfinyl, (C_1-C_{10}) haloalkylsulfinyl, (C_1-C_{10}) alkylthio, (C_1-C_{10}) alkoxy, (C_1-C_{10}) alkylcarbonyl, (C_1-C_{10}) alkylaminosulfonyl, (C_1-C_{10}) dialkylamino-sulfonyl, (C_1-C_{10}) alkylcarbamoyl, (C_1-C_{10}) dialkylcarbamoyl, (C_1-C_{10}) alkoxyalkyl, phenoxy, nitro, cyano, aryl or di- (C_1-C_{10}) alkylphosphono- (C_1-C_{10}) alkyl;
- X^1 is O, $CR^{15}R^{16}$, $CHOH$, $C=O$, $C=NO(C_1-C_{10})$ alkyl;
- X^2 is O, S, SO, SO_2 , CH_2 , NH, $N(C_1-C_{10})$ alkyl, $NSO_2(C_1-C_{10})$ alkyl;
- R^{15} , R^{16} radicals are identical or different and are hydrogen, (C_1-C_{10}) alkyl, (C_1-C_{10}) alkoxy, (C_1-C_{10}) haloalkoxy, (C_1-C_{10}) alkylthio, (C_1-C_{10}) haloalkylthio or R^{15} and R^{16} together form one of the groups $-O-(CH_2)_2-O-$, $-O-(CH_2)_3-O-$, $S-(CH_2)_2-S-$, $-S-(CH_2)_3-S-$, $-(CH_2)_4-$, $-(CH_2)_5-$;
- r is 0, 1, 2 or 3;
- t is 1 or 2;
- Y^1 , Y^2 are SO_2 or CO, with the proviso that $Y^1 \neq Y^2$,
- v is 1 or 2;
- U^1 together with the carbon atoms to which it is linked forms a carbocyclic or heterocyclic ring which can be aromatic or fully or partially saturated;
- U^2 is O, S, SO, SO_2 , CH_2 , NH, $N(C_1-C_{10})$ alkyl, $NSO_2(C_1-C_{10})$ alkyl;
- R^{12} is hydrogen, (C_1-C_{10}) alkyl, (C_3-C_{10}) -cycloalkyl, (C_2-C_{10}) alkenyl, (C_2-C_{10}) alkynyl, optionally substituted phenyl, optionally substituted benzyl, (C_1-C_{10}) -acyl;
- R^{13} is an unsubstituted or substituted (C_1-C_{10}) hydrocarbon radical such as (C_1-C_{10}) alkyl or aryl;
- u is 0, 1 or 2;
- R^{14} radicals are identical or different and are nitro, amino, halogen, SF_5 or a (C_1-C_{10}) carbon-containing radical such as (C_1-C_{10}) alkyl, (C_2-C_{10}) alkenyl, (C_2-C_{10}) alkynyl, (C_1-C_{10}) haloalkyl, (C_2-C_{10}) haloalkenyl, (C_2-C_{10}) haloalkynyl, (C_1-C_{10}) haloalkoxy, (C_1-C_{10}) haloalkylthio, (C_1-C_{10}) alkoxycarbonyl, (C_1-C_{10}) alkylsulfonyl, (C_1-C_{10}) alkylsulfinyl, (C_1-C_{10}) alkylthio, arylsulfonyl, arylsulfinyl, arylthio, (C_1-C_{10}) alkoxy, (C_1-C_{10}) alkoxy- (C_1-C_{10}) alkoxy, (C_1-C_{10}) -alkylthio- (C_1-C_{10}) -alkoxy, (C_1-C_{10}) alkylcarbonyl, (C_1-C_{10}) alkylaminosulfonyl,

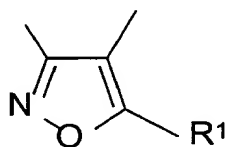
(C₁-C₁₀)dialkylaminosulfonyl, (C₁-C₁₀)alkylcarbamoyl,
 (C₁-C₁₀)dialkylcarbamoyl, (C₁-C₁₀)alkoxy-(C₁-C₁₀)alkyl, (C₁-C₁₀)haloalkoxy-
 (C₁-C₁₀)alkyl, phenoxy, cyano, alkylamino, dialkylamino, unsubstituted or
 substituted benzyl, unsubstituted or substituted heteroaryl, unsubstituted or
 substituted heterocyclyl, unsubstituted or substituted heteroaryl-(C₁-C₁₀)alkyl
 or di-(C₁-C₁₀)alkylphosphono-(C₁-C₁₀)alkyl, and

w is 0, 1, 2, 3 or 4.

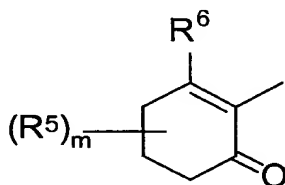
4. A herbicidal composition as claimed in claim 1, comprising, as component A),

10 a compound of the formula (I) where

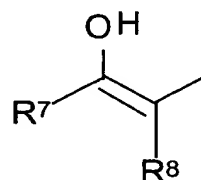
V is a radical (V1), (V3) or (V4),



(V1)



(V3)



(V4)

where the symbols and indices have the following meanings:

R is hydrogen or (C₁-C₄) alkoxy carbonyl;

15 R¹ is (C₃-C₈)cycloalkyl or (C₁-C₄)alkyl -(C₃-C₈)cycloalkyl

R⁵ is (C₁-C₁₀)alkyl, (C₁-C₄) alkoxy or two radicals R⁵ together are (C₂-C₆)alkylene;

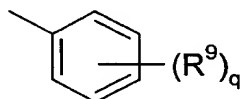
R⁶ is hydroxyl, (C₁-C₄) alkoxy or phenylthio;

R⁷ is (C₁-C₄) alkyl or (C₃-C₇) cycloalkyl,

R⁸ is C₁-C₄ (alkylcarbonyl), (C₁-C₄) alkoxy carbonyl or cyano;

20 m is 0, 1 or 2;

and Z is a radical (Z1),



(Z1)

where the symbols and indices have the following meanings:

R^9 radicals are identical or different and are nitro, halogen, (C_1-C_{10}) haloalkyl, (C_1-C_{10}) alkylsulfonyl, (C_1-C_{10}) haloalkoxy, (C_1-C_{10}) alkoxy- (C_1-C_{10}) -alkyl, (C_1-C_{10}) haloalkoxy- (C_1-C_{10}) alkyl, (C_1-C_4) alkoxy- (C_1-C_4) -alkoxy- (C_1-C_4) -alkoxy- (C_1-C_4) -alkyl, (C_3-C_6) -cycloalkyl- (C_1-C_4) -alkoxy, (C_3-C_6) cycloalkoxy- (C_1-C_4) -alkyl, (C_1-C_{10}) alkoxy- (C_1-C_{10}) alkoxy, 2-tetrahydrofuranyl- (C_1-C_4) alkoxy- (C_1-C_4) -alkyl, or heterocyclyl, which is unsubstituted or substituted by, for example, one or more radicals selected from the group halogen, (C_1-C_{10}) alkoxy, (C_1-C_{10}) haloalkoxy, (C_1-C_{10}) alkylthio, hydroxyl, amino, nitro, carboxyl, cyano, azido, (C_1-C_{10}) alkoxycarbonyl, (C_1-C_{10}) alkylcarbonyl, formyl, carbamoyl, mono- and di- (C_1-C_{10}) alkylaminocarbonyl, acylamino, mono- and di- (C_1-C_{10}) alkylamino, (C_1-C_{10}) alkylsulfinyl, (C_1-C_{10}) haloalkylsulfinyl, (C_1-C_{10}) alkylsulfonyl, (C_1-C_{10}) haloalkylsulfonyl or unsubstituted or substituted (C_1-C_{10}) alkyl such as (C_1-C_{10}) haloalkyl, (C_1-C_{10}) alkoxyalkyl, (C_1-C_{10}) haloalkoxyalkyl, (C_1-C_{10}) alkylthioalkyl, (C_1-C_{10}) hydroxyalkyl, (C_1-C_{10}) aminoalkyl, (C_1-C_{10}) nitroalkyl, (C_1-C_{10}) carboxyalkyl, (C_1-C_{10}) cyanoalkyl or (C_1-C_{10}) azidoalkyl,

q is 0, 1, 2, 3, 4 or 5, preferably 2 or 3.

5. A herbicidal composition as claimed in claim 1 comprising, as component A), a compound of the formula (I)

where the symbols and indices have the following meanings:

V is the radical (V 2);

R^2 is hydrogen, (C_1-C_4) -alkyl or (C_1-C_4) -alkoxy;

R^3 is hydrogen or (C_1-C_4) -alkylsulfonyl;

R^4 is methyl, ethyl or n-propyl;

Z is the radical (Z 1);

R^9 radicals are identical or different and are nitro, halogen, (C_1-C_4) haloalkyl or (C_1-C_4) alkylsulfonyl;

q is 2 or 3.

6. A herbicidal composition as claimed in claim 1 comprising, as component A), a compound of the formula (I) where the symbols and indices have the following meanings:

- V is a radical (V 1) or (V 3);
- 5 R is hydrogen, methoxycarbonyl or ethoxycarbonyl;
- R¹ is cyclopropyl;
- R⁵ is methyl;
- R⁶ is hydroxyl;
- m is 0, 1 or 2;
- 10 Z is the radical (Z 1);
- R⁹ radicals are identical or different and are nitro, chlorine, fluorine, bromine, (C₁-C₄)-haloalkyl, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-haloalkoxy, (C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, (C₁-C₄)-haloalkoxy-(C₁-C₄)-alkyl, 2-tetrahydrofuranyl-methoxymethyl, (C₁-C₂)alkoxy-(C₁-C₄)alkoxy-(C₁-C₄)alkoxy-(C₁-C₄)-alkyl, (C₃-C₆)-cycloalkoxy-(C₁-C₂)alkyl, (C₃-C₆)-cycloalkyl-(C₁-C₂)-alkoxy, (C₁-C₄)-alkoxy-(C₁-C₄)-alkoxy or are 4,5-dihydroisoxazol-3-yl which is substituted by a radical selected from the group consisting of cyanomethyl, ethoxymethyl and methoxymethyl,
- 15 q is 2 or 3.

20

7. A herbicidal composition as claimed in claim 1 comprising, as component A), a compound of the formula (I) where the symbols and indices have the following meanings:

- V is the radical (V 2);
- 25 R² is hydrogen, methyl or ethyl;
- R³ is hydrogen, methylsulfonyl or ethylsulfonyl;
- R⁴ is methyl, ethyl or n-propyl;
- Z is the radical (Z 1);
- R⁹ radicals are identical or different and are methylsulfonyl, ethylsulfonyl, chlorine, bromine, fluorine, trifluoromethyl, (C₁-C₄)-alkoxy, (C₁-C₄)-haloalkoxy or (C₁-C₄)haloalkoxy-(C₁-C₄)-alkyl;
- 30 q is 2 or 3.

8. A herbicidal composition as claimed in claim 1, additionally comprising one or more further components selected from the group containing agrochemical active ingredients of a different type, additives conventionally used in crop protection, and formulations relating thereto.

9. A method of controlling harmful plants, wherein the herbicidal composition defined as in claim 1 is applied to the plants, plant parts, seeds of the plants or the area under cultivation pre-emergence, post-emergence or pre- and post-emergence.

10. The method as claimed in claim 9 for the selective control of harmful plants in plant crops.

11. The use of the herbicidal composition as defined in claim 1 for controlling harmful plants.

12. A process for the preparation of the herbicidal composition defined as in one or more of claims 1 to 8, wherein the compound(s) of the formula (I) is/are mixed with one or more surfactants B).

13. The process as claimed in claim 12, wherein components A) and B) are mixed with water and/or an oil by the tank mix method.